Net Centric Operational Environment Joint Integrating Concept Interim Progress Report

COL Brian Hurley

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Purpose of Briefing

- Overview development framework of the Net-Centric Operational Environment Joint Integrating Concept (NCOE JIC) and receive guidance for further development
- Previous JCS Tank/OPSDEPS Briefings
  - 7 February TANK (NCOE Way-Ahead)
  - 3 August OPSDEPS (Concept Approval Update)
  - 10 August OPSDEPS (IPR Brief—Concurred with development of concept, but requested additional info on military problem and relationship to the C2 JIC)
  - 22 August OPSDEPS (Reviewed changes from 10 August brief and approved proceeding to JCS)
- Recent Activity:
  - O-6 Review 23 May - 9 Jun 05
  - Red Team Review 2 Jun 05
  - Wargame 28-30 Jun 05
  - Critical comments Resolution Conf 22 Jul 05
- Current version (0.7) incorporates 06 Review, Red Team, and Wargame inputs

NCOE JIC Objectives

- **Objectives:**
  - Development of a conceptual framework for the broader NCOE effort
  - Establish basis for rigorous assessment and analysis of capability gaps and excesses through a Capabilities-Based Assessment (CBA) process
- **Key Considerations:**
  - Distill broad capabilities from the Net-Centric Environment/Joint Net-Centric Operations into specific tasks, conditions, and standards required to support mission objectives in future Major Combat and subsequent Stability Operations.
  - Follow the Joint Capabilities Integration and Development System (JCIDS) process to facilitate the CBA
- **End State:**
  - Deliver Version 0.9 for JCS approval by 15 Oct 05
  - Utilize JCS approved Version 1.0 for follow-on CBA

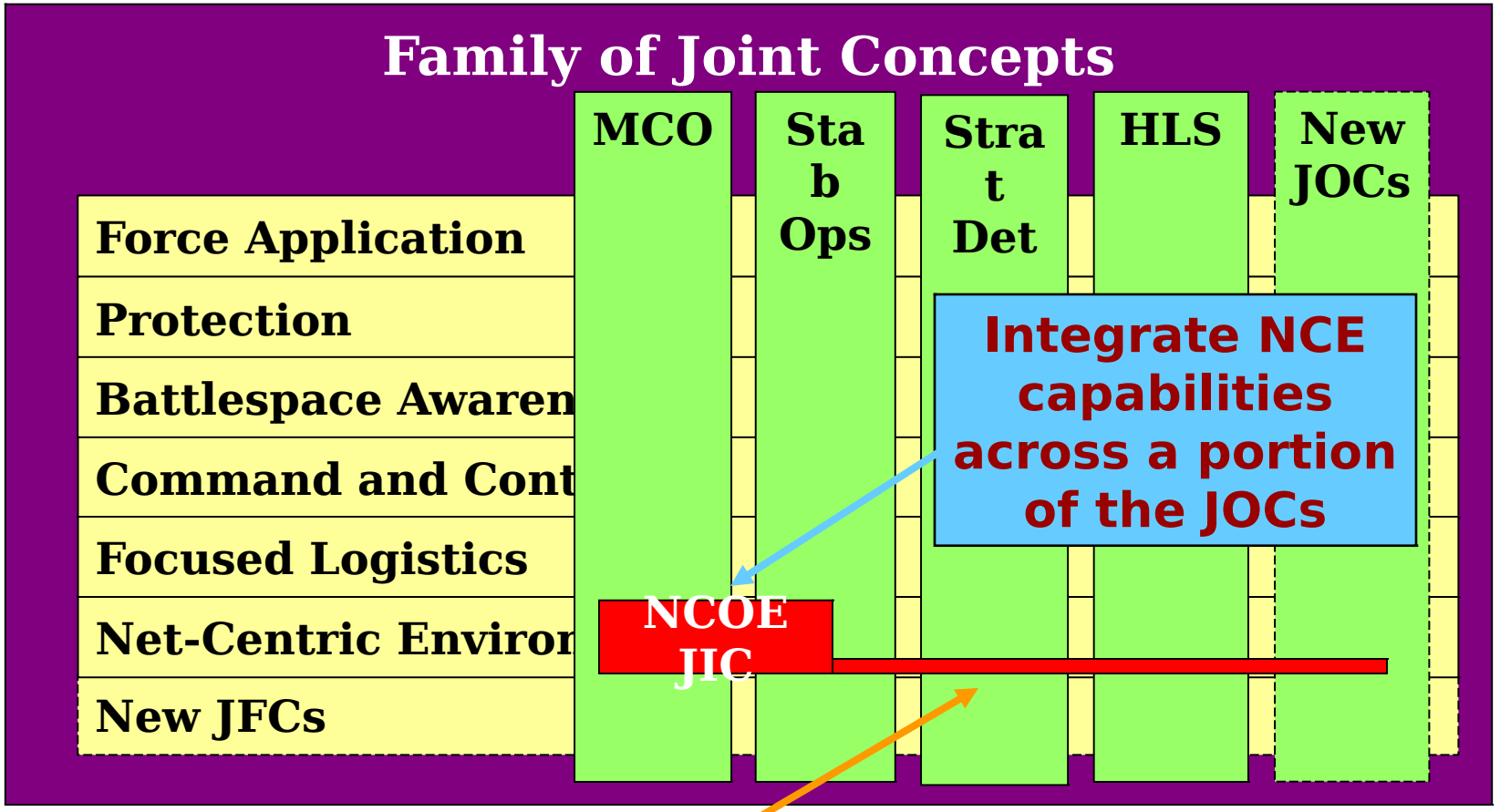
NCOE JIC Military Problem

The Joint Force and mission partners must have rapid **access** to relevant, accurate, and timely information and the ability to create and **share** the knowledge required to make superior decisions in an **assured** environment of **unprecedented** **quantities** of operational data.

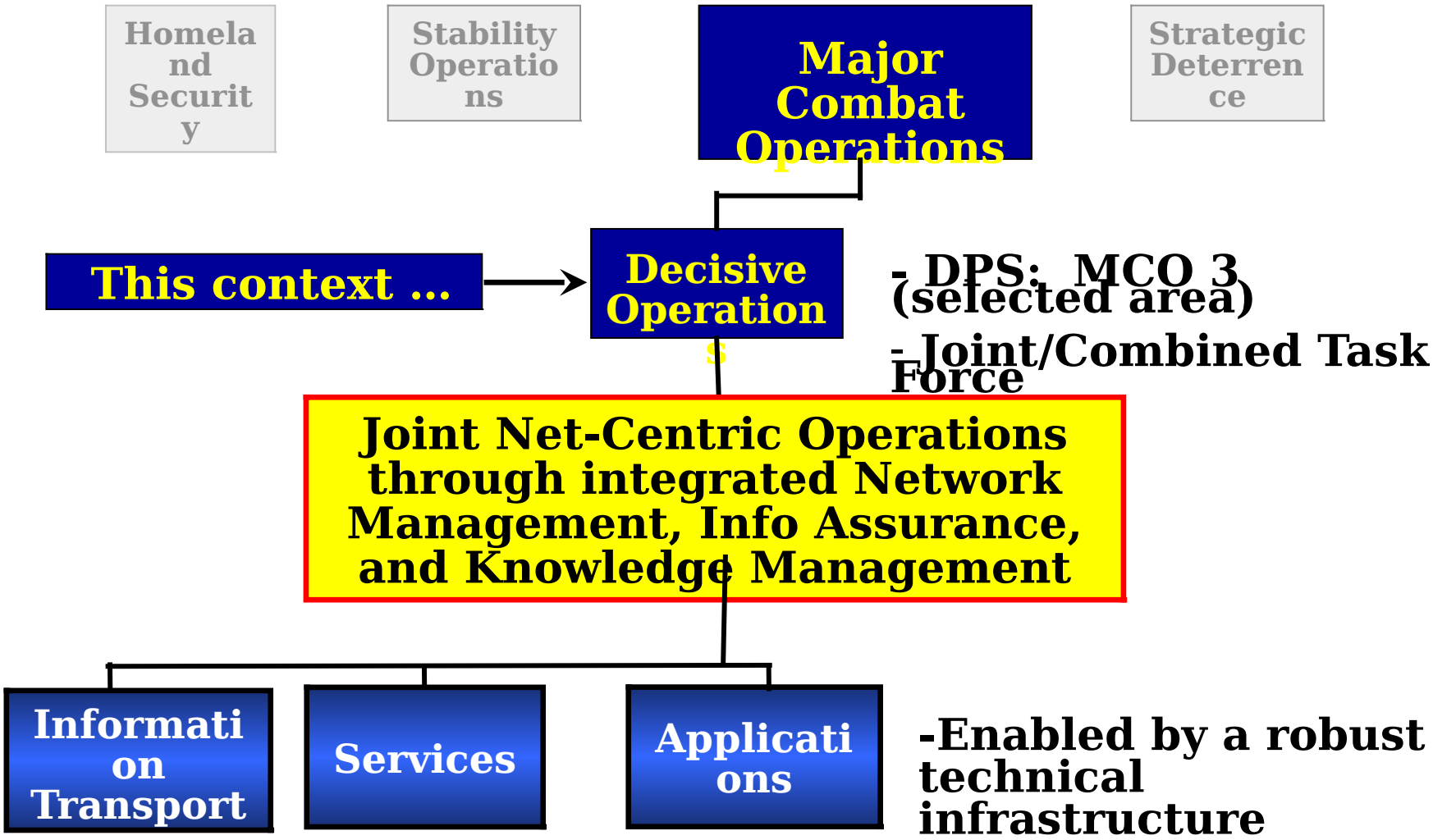
NCOE JIC Central Id

In order for the future Joint Force to achieve decisive levels of shared knowledge and technical connectivity, the Net-Centric Operational Environment must provide the Joint Force with pervasive knowledge through the full integration of Knowledge Management, Network Management, and Information Assurance.

First Order NCOE JIC Bounding



NCOE JIC Bounding the Problem



Six Knowledge Area Capabilities (45 Tasks)

1. Ability to establish appropriate organizational relationships (11 tasks)
2. Ability to collaborate (12 tasks)
3. Ability to provide adaptive, distributed, cooperative, and collaborative decision-making and planning (12 tasks)
4. Ability to share situational understanding (4 tasks)
5. Ability to continuously develop skills in a networked environment (3 tasks)
6. Ability to share knowledge with groups/individuals not physically connected to the networked environment (3 tasks)

Eight Technical Area Capabilities (67 Tasks)

1. Ability to create/produce information (3 tasks)
2. Ability to store, share, and exchange data/information (10 tasks)
3. Ability to establish an information environment (4 tasks)
4. Ability to process data and information (2 tasks)
5. Ability to find useful information (2 tasks)
6. Ability to validate/assure (6 tasks)
7. Ability to defend systems and networks (17 tasks)
8. Ability to optimize network functions and resources (23 tasks)

C2 and NCOE JIC Capabilities

C2	NCOE (Knowledge Area)
1. Exercise Command Leadership	1. Ability to continuously develop skills in a networked environment
2. Communicate Commander's Intent and Guidance	2. Ability to establish appropriate organizational relationships
3. Establish / Adapt Command Structures and Enable Both Global and Regional Collaboration	3. Ability to collaborate
4. Develop and Maintain Shared Situational Awareness / Understanding	4. Ability to share situational understanding
5. Plan Collaboratively	5. Ability to provide adaptive, distributed, cooperative, and collaborative decision-making and planning
6. Synchronize Operations Across All Domains	6. Ability to share knowledge with groups/individuals not physically connected to the networked environment
7. Monitor Execution, Assess Effects, and Adapt Operations	
8. Leverage Mission Partners	

The C2 JIC is focused on *processes*--the NCOE JIC enables these processes, as well as processes in other functions

Note:Tasks renumbered for clarity of relationships in comparison

NCOE JIC Way-Ahead to Version 1.0

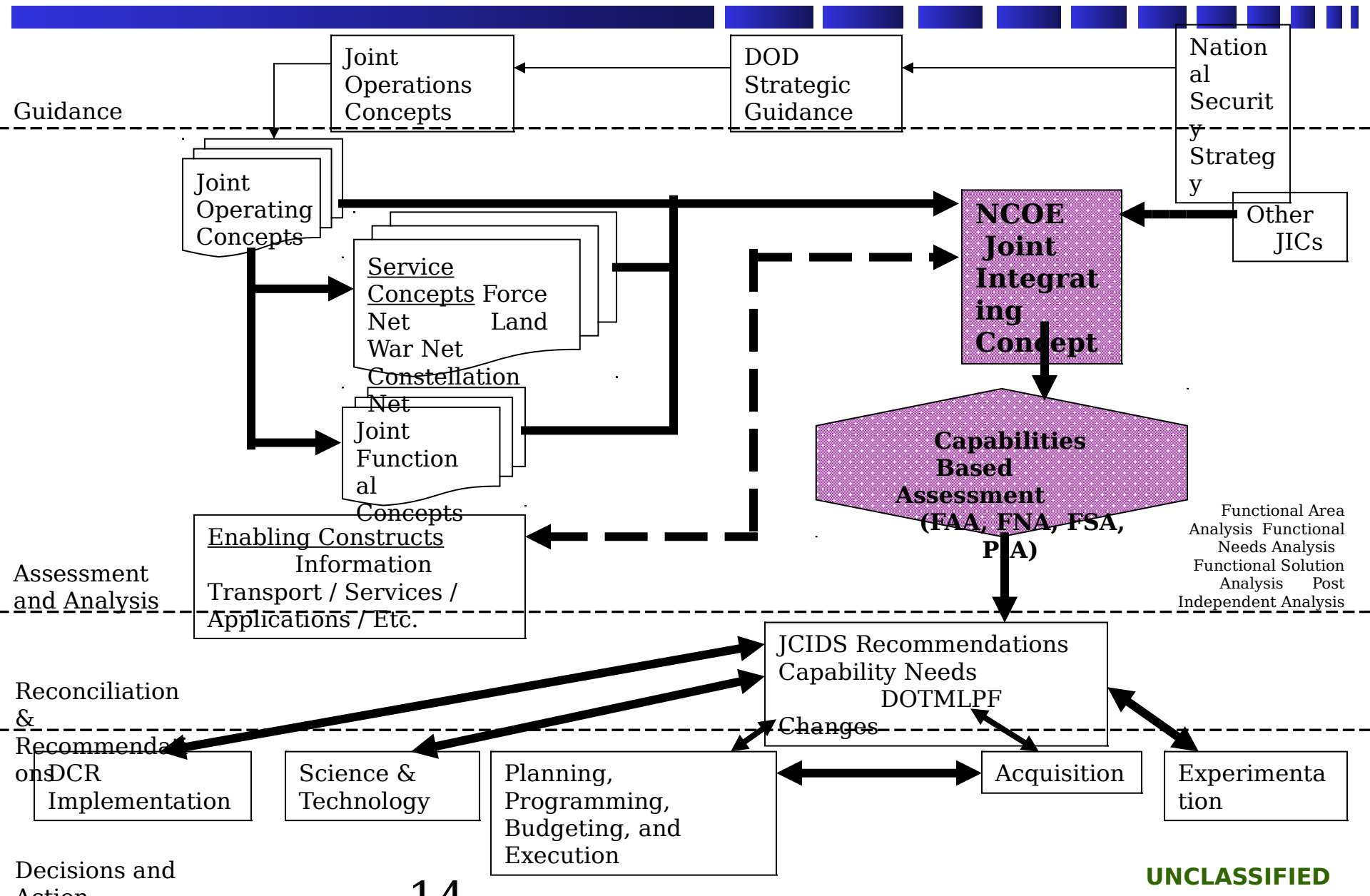
- 26 Aug –FO/GO review version 0.8
- 23 Sep – FO/GO comments due
- 30 Sep – FO/GO Critical Comment Resolution Conf
- 15 Oct – Version 0.9 ready for JCS approval process
  - JCB
  - OPSDEPS
  - JROC
  - JCS
- The approved JIC document will be published at Version 1.0 and used in follow-on CBA

Recommendation

- Concur with military problem, framework and way-ahead for development of NCOE JIC

BACK UP SLIDES

NCOE JIC w/Illustrative CONOPS



NCOE JIC Timeline

Feb -- 1-2 Feb—Workshop #1
-- 7 Feb—Initial OPSDEPS/JCS Approval of NCOE way-ahead
-- 23-25 Feb—Workshop #2
Mar -- 30 Mar -1 Apr—Workshop #3
Apr -- 12-14 Apr—Workshop #4
May -- 23 May—JSAP O-6 Level Coord Begins (Ver 0.5)
Jun -- 2 Jun—Red Team Review (Ver 0.5)
-- 26-28 Jun—Wargame
Jul -- 22 Jul—O-6 Comments Resolution Conf.
Aug -- 3 Aug—OPSDEPS Concept Way Ahead Brief
10 Aug—OPSDEPS IPR Brief
-- 18 Aug—2nd Red Team Review
22 Aug—OPSDEPS Revised IPR Brief --
24 Aug—JCS Tank IPR Brief --
26 Aug—FO/GO Coord Begins (Ver 0.8)
Sep 30 Sep—FO/GO Comments Resolution Conf --
Oct Version 0.9 Ready for Approval — 15 Oct --
Briefing Circuit -- JCB, OPSDEPS, JROC, JCS

CBA Begins

Examples of How NCOE Capabilities Benefit the Joint Force

- Stand-up a JTF-level COI
- Establish/Disestablish Role-based access for NGO user
- Conduct collaboration session with new multi-national partners
- Allocate additional resources to unit on-the-move in contact
- Generation/Deployment of network infrastructure in forward area
- Maintenance of network in transition to stability operations
- Execute Risk Adaptive Decision Access Control to allow allies rapid access to classified mission-essential information
- User employs individual information management capabilities to configure automated agents for discovery and display of new information source

Relationship of C2 JIC Capabilities to NCOE Knowledge Area Capabilities

1. Exercise Command Leadership
   - **NCOE #K5: Ability to continuously develop skills in a networked environment**
2. Establish / Adapt Command Structures and Enable Both Global and Regional Collaboration
   - **NCOE #K1: Ability to establish appropriate organizational relationships**
   - **NCOE #K2: Ability to collaborate**
3. Develop and Maintain Shared Situational Awareness / Understanding
   - **NCOE #K4: Ability to share situational understanding**
5. Plan Collaboratively
   - **NCOE #K3: Ability to provide adaptive, distribute, cooperative, and collaborative decision-making and planning**
8. Leverage Mission Partners
   - **NCOE #K6: Ability to share knowledge with groups/individuals**

C2 is the biggest customer of NCOE

Relationship of C2 JIC Assumptions to NCOE JIC Technical Area Capabilities

- A secure, trusted, global computer networking infrastructure (evolution of the Global Information Grid [GIG]) will be in place in 2015
  - **NCOE #T1: Ability to create/produce information**
  - **NCOE #T3: Ability to establish an information environment**
- Core enterprise services (CES) will be provided
  - **NCOE #T4: Ability to process data and information**
  - **NCOE #T5: Ability to find useful information**
  - **NCOE #T6: Ability to validate/assure**
- Battlespace Awareness (BA) information will be available at all levels of war to enable coherent decision making
  - **NCOE #T2: Ability to store, share, and exchange data/information**
- All may be degraded in some situations
  - **NCOE #T7: Ability to defend systems and networks**
  - **NCOE #T8: Ability to optimize network functions and resources**

NCOE is the key enabler of C2

JIC Relationships